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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/556,132	11/15/2006	Bernd Bruchmann	280143US0PCT	2494	
22850 7590 03/12/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, P.C. 1940 DUKE STREET			EXAM	EXAMINER	
			LEONARD, MICHAEL L		
ALEXANDRIA, VA 22314			ART UNIT	PAPER NUMBER	
			1796		
			NOTIFICATION DATE	DELIVERY MODE	
			03/12/2009	ELECTRONIC	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Application No. Applicant(s) 10/556,132 BRUCHMANN ET AL. Office Action Summary Examiner Art Unit MICHAEL LEONARD 1796 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 28 January 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-20 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

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DETAILED ACTION

Response to Arguments

Applicant's arguments, see Applicant Arguments/Remarks, filed 01/28/2009, with respect to the rejection(s) of claim(s) 1-20 under 35 U.S.C. 102 (b) over Nakamura et al. WO 01/16203 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of U.S. Patent No. 4,786,682 to Perez et al. in view of U.S. Patent No. 6,376,637 to Bruchmann et al.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-20 rejected under 35 U.S.C. 103 (a) as being unpatentable over U.S. Patent No. 4,786,682 to Perez et al. in view of U.S. Patent No. 6,376,637 to Bruchmann et al.

As to claims 1-20, Perez discloses a coating composition containing a polyol formed by reacting under conditions sufficient to form a Michael adduct a material containing one or more primary and/or secondary amino groups and at least two hydroxyl groups and a material containing at least two ethylenically unsaturated moieties with the proviso that these reactants result in hydroxy functionality (Abstract).

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The Michael adduct further contains tertiary amines (Column 6, lines 17-18). Perez further discloses curing the Michael adducts with polyisoyanates. Perez fails to disclose the reactivity of the Michael adducts, however, because the reference teaches all of the claimed ingredients, the claimed effects and physical properties, i.e. hydroxyl reactivity towards isocyanate would implicitly be achieved by the polyol as disclosed by Perez with all the claimed ingredients.

Perez fails to disclose hyper branched or dendritic polyurethane formed from this polyol.

Bruchmann discloses a simple process for preparing dendritic and highly branched polyurethanes, which can be achieved by exploiting the differences in reactivity of the functional groups in the compounds which are reactive towards isocyanates in order to control a selective buildup (Column 2, lines 35-40). Bruchmann further discloses the different reactivity of the functional groups of the monomers used ensures that the most reactive functional groups in each case react with the end groups of the dendrite chains and the less reactive functional groups of the monomers form the functional end groups of the next generation of the dendritic polyurethanes (Column 4, lines 1-6).

Perez and Bruchmann are analogous are because they are from the same field of endeavor with respect to polyurethane products made from polyols with different reactive functional groups.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to exploit the different reactive groups of the polyols disclosed by Perez in

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order to form dendritic or highly branched polyurethane as disclosed by Bruchmann.

The suggestion/motivation would have been to have more of a selective control of the buildup of the polymer (Bruchmann, Colum 2, line 39) in order to form a polymer with a desired molecular weight (Bruchmann, Column 3, lines 61-62).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MICHAEL LEONARD whose telephone number is (571)270-7450. The examiner can normally be reached on Mon-Fri 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/MICHAEL LEONARD/ Examiner, Art Unit 1796

/Randy Gulakowski/

Supervisory Patent Examiner, Art Unit 1796